SIEVE ANALYSIS

Location _____ Site No. _____

Watershed _____ Subwatershed _____

Contract No. _____ Contractor _____

Tested by _____ Date _____ Checked by _____

Source of material _____ Sample depth: _____ to _____

Material tested: concrete aggregate ☐ drain fill ☐ filter ☐

Bid item No. _____ Reference contract specification _____

Coarse aggregate

Weight of container plus dry sample _____ lb
Weight of container _____ lb
Weight of dry sample (W) _____ lb

Sieve size	① Weight of sieve plus material retained (lb)	② Weight of sieve (lb)	③ Weight of material retained = ① − ② (lb)	④ Weight of material (③ ÷ W) x 100 (%)	Cumulative ⑤ Percent retained: subtotal of ④ (lb)	Cumulative ⑥ Percent passing = 100% − ⑤ (lb)	Specifi-cation limits (percent passing)
4 in.							
3-1/2 in.							
3 in.							
2-1/2 in.							
2 in.							
1-1/2 in.							
1 in.							
3/4 in.							
1/2 in.							
3/8 in.							

Fine aggregate

Weight of container plus dry sample _____ lb

Weight of container _____ lb

Weight of dry sample (W) _____ lb

Sieve size	① Weight of sieve plus material retained (lb)	② Weight of sieve (lb)	③ Weight of material retained = ① − ② (lb)	④ Weight of material (③ ÷ W) × 100 (%)	Cumulative ⑤ Percent retained: subtotal of ④ (lb)	Cumulative ⑥ Percent passing = 100% − ⑤ (lb)	Specification limits (percent passing)
2 in.							
No. 4							
No. 8							
No. 16							
No. 30							
No. 50							
No. 100							
No. 200							
Pan							
Fineness modulus					$\frac{\text{[1]}}{100}$	=	

Materials finer than No. 200 sieve by washing

1. Weight of container plus moist sample _____ g
2. Weight of container plus dry sample _____ g
3. Weight of container _____ g
4. Weight of dry sample (original) = ⑳ − ⑲ _____ g
5. Weight of container plus dry sample (after washing) _____ g
6. Weight of container _____ g
7. Weight of dry sample (after washing) = ⑤ − ⑥ _____ g
8. Material content finer than No. 200 sieve = [(④ − ⑦) ÷ ④] 100 _____ %

[1] Total of cumulative percent retained, excluding percent retained on No. 200 sieve and material in pan.